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10 <151> 2003-08-01

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<170> PatentIn version 3.1

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Trp Met Ile Tyr Thr Tyr Ser Gly Leu Phe Cys Val Thr Val Asn Pro
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Tyr Lys Trp Leu Pro Val Tyr Asn Ala Glu Val Val Thr Ala Tyr Arg
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Gly Lys Lys Arg Gln Glu Ala Pro Pro His Ile Phe Ser Ile Ser Asp
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Asn Ala Tyr Gln Phe Met Leu Thr Asp Arg Glu Asn Gln Ser Ile Leu
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	Arg Ala Arg Gln Asn Ile Val Asn Ala Thr Ala Asn Leu Gly Gln Ser	
	215 220 225 230	
40	gtc acc ctg gtg tgc gat gcc gaa cgg ttc cca gag ccc acc atg agc	775
	Val Thr Leu Val Cys Asp Ala Glu Arg Phe Pro Glu Pro Thr Met Ser	
	235 240 245	
45	tgg aca aag gat ggg gaa cag ata gag caa gag gaa gac gat gag aag	823
	Trp Thr Lys Asp Gly Glu Gln Ile Glu Gln Glu Glu Asp Asp Glu Lys	
	250 255 260	
50	tac atc ttc agc gac gat agt tcc cag ctg acc atc aaa aag gtg gat	871
	Tyr Ile Phe Ser Asp Asp Ser Ser Gln Leu Thr Ile Lys Lys Val Asp	
	265 270 275	
55	aag aac gac gag gct gag tac atc tgc att gct gag aac aag gct ggc	919
	Lys Asn Asp Glu Ala Glu Tyr Ile Cys Ile Ala Glu Asn Lys Ala Gly	
	280 285 290	

	gag cag gat gcg acc atc cac ctc aaa gtc ttt gca aaa ccc aaa atc	967
	Glu Gln Asp Ala Thr Ile His Leu Lys Val Phe Ala Lys Pro Lys Ile	
	295 300 305 310	
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	Thr Tyr Val Glu Asn Gln Thr Ala Met Glu Leu Glu Glu Gln Val Thr	
	315 320 325	
10	ctt acc tgt gaa gcc tcc gga gac ccc att ccc tcc atc acc tgg agg	1063
	Leu Thr Cys Glu Ala Ser Gly Asp Pro Ile Pro Ser Ile Thr Trp Arg	
	330 335 340	
15	act tct acc cgg aac atc agc agc gaa gaa aag act ctg gat ggg cac	1111
	Thr Ser Thr Arg Asn Ile Ser Ser Glu Glu Lys Thr Leu Asp Gly His	
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20	atg gtg gtg cgt agc cat gcc cgt gtg tog tgg ctg acc ctg aag agc	1159
	Met Val Val Arg Ser His Ala Arg Val Ser Ser Leu Thr Leu Lys Ser	
	360 365 370	
	atc cag tac act gat gcc gga gag tac atc tgc acc gcc agc aac acc	1207
	Ile Gln Tyr Thr Asp Ala Gly Glu Tyr Ile Cys Thr Ala Ser Asn Thr	
	375 380 385 390	
25	atc ggc cag gac tcc cag tcc atg tac ctt gaa gtg caa tat gcc cca	1255
	Ile Gly Gln Asp Ser Gln Ser Met Tyr Leu Glu Val Gln Tyr Ala Pro	
	395 400 405	
30	aag cta cag ggc cct gtg gct gtg tac act tgg gag ggg aac cag gtg	1303
	Lys Leu Gln Gly Pro Val Ala Val Tyr Thr Trp Glu Gly Asn Gln Val	
	410 415 420	
35	aac atc acc tgc gag gta ttt gcc tat ccc agt gcc acg atc tca tgg	1351
	Asn Ile Thr Cys Glu Val Phe Ala Tyr Pro Ser Ala Thr Ile Ser Trp	
	425 430 435	
40	ttt ogg gat ggc cag ctg ctg cca agc tcc aat tac agc aat atc aag	1399
	Phe Arg Asp Gly Gln Leu Leu Pro Ser Ser Asn Tyr Ser Asn Ile Lys	
	440 445 450	
	atc tac aac acc ccc tct gcc agc tat ctg gag gtg acc cca gac tct	1447
	Ile Tyr Asn Thr Pro Ser Ala Ser Tyr Leu Glu Val Thr Pro Asp Ser	
	455 460 465 470	
45	gag aat gat ttt ggg aac tac aac tgt act gca gtg aac cgc att ggg	1495
	Glu Asn Asp Phe Gly Asn Tyr Asn Cys Thr Ala Val Asn Arg Ile Gly	
	475 480 485	

	cag gag tcc ttc gaa ttc atc ctt gtt caa gca gac acc ccc tct tca	1543
	Gln Glu Ser Phe Glu Phe Ile Leu Val Gln Ala Asp Thr Pro Ser Ser	
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5	cca tcc atc gac cag gtg gag cca tac tcc agc aca gcc cag gtg cag	1591
	Pro Ser Ile Asp Gln Val Glu Pro Tyr Ser Ser Thr Ala Gln Val Gln	
	505 510 515	
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	Phe Asp Glu Pro Glu Ala Thr Gly Gly Val Pro Ile Leu Lys Tyr Lys	
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	Ala Glu Trp Arg Ala Val Gly Glu Glu Val Trp His Ser Lys Trp Tyr	
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20	gat gcc aag gaa gcc agc atg gag ggc atc gtc acc atc gtg ggc ctg	1735
	Asp Ala Lys Glu Ala Ser Met Glu Gly Ile Val Thr Ile Val Gly Leu	
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	aag ccc gaa aca acg tac gcc gta agg ctg gcg gcg ctc aat ggc aaa	1783
	Lys Pro Glu Thr Thr Tyr Ala Val Arg Leu Ala Ala Leu Asn Gly Lys	
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	Gly Leu Gly Glu Ile Ser Ala Ala Ser Glu Phe Lys Thr Gln Pro Val	
	585 590 595	
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	Gln Gly Glu Pro Ser Ala Pro Lys Leu Glu Gly Gln Met Gly Glu Asp	
	600 605 610	
35	gga aac tct att aaa gtg aac ctg atc aag cag gat gac ggc ggc tcc	1927
	Gly Asn Ser Ile Lys Val Asn Leu Ile Lys Gln Asp Asp Gly Gly Ser	
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40	ccc atc aga cac tat ctg gtc agg tac cga gcg ctc tcc tcc gag tgg	1975
	Pro Ile Arg His Tyr Leu Val Arg Tyr Arg Ala Leu Ser Ser Glu Trp	
	635 640 645	
	aaa cca gag atc agg ctc ccg tct ggc agt gac cac gtc atg ctg aag	2023
	Lys Pro Glu Ile Arg Leu Pro Ser Gly Ser Asp His Val Met Leu Lys	
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	Ser Leu Asp Trp Asn Ala Glu Tyr Glu Val Tyr Val Val Ala Glu Asn	
	665 670 675	

	cag caa gga aaa tcc aag gcg gct cat ttt gtg ttc agg acc tcg gcc Gln Gln Gly Lys Ser Lys Ala Ala His Phe Val Phe Arg Thr Ser Ala 680 685 690	2119
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10	acc ggg gcc atc gtg ggc atc ctc atc gtc atc ttc gtc ctg ctc ctg Thr Gly Ala Ile Val Gly Ile Leu Ile Val Ile Phe Val Leu Leu Leu 715 720 725	2215
15	gtg gtt gtg gac atc acc tgc tac ttc ctg aac aag tgt ggc ctg ttc Val Val Val Asp Ile Thr Cys Tyr Phe Leu Asn Lys Cys Gly Leu Phe 730 735 740	2263
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	ggc aag gac atg gag gag ggc aag gcc gcc ttc tcg aaa gat gag tcc Gly Lys Asp Met Glu Glu Gly Lys Ala Ala Phe Ser Lys Asp Glu Ser 760 765 770	2359
25	aag gag ccc atc gtg gag gtt cga acg gag gag gag agg acc cca aac Lys Glu Pro Ile Val Glu Val Arg Thr Glu Glu Glu Arg Thr Pro Asn 775 780 785 790	2407
30	cat gat gga ggg aaa cac aca gag ccc aac gag acc acg cca ctg acg His Asp Gly Gly Lys His Thr Glu Pro Asn Glu Thr Thr Pro Leu Thr 795 800 805	2455
35	gag ccc gag aag ggc ccc gta gaa gca aag cca gag tgc cag gag aca Glu Pro Glu Lys Gly Pro Val Glu Ala Lys Pro Glu Cys Gln Glu Thr 810 815 820	2503
40	gaa acg aag cca gcg cca gcc gaa gtc aag acg gtc ccc aat gac gcc Glu Thr Lys Pro Ala Pro Ala Glu Val Lys Thr Val Pro Asn Asp Ala 825 830 835	2551
	aca cag aca aag gag aac gag agc aaa gca tga tgggtgaaga gaaccgagca Thr Gln Thr Lys Glu Asn Glu Ser Lys Ala 840 845	2604
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Val Gly Glu Ser Lys Phe Phe Leu Cys Gln Val Ala Gly Asp Ala Lys
35 40 45

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Asp Lys Asp Ile Ser Trp Phe Ser Pro Asn Gly Glu Lys Leu Thr Pro
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Asn Gln Gln Arg Ile Ser Val Val Trp Asn Asp Asp Ser Ser Ser Thr
65 70 75 80

Leu Thr Ile Tyr Asn Ala Asn Ile Asp Asp Ala Gly Ile Tyr Lys Cys
85 90 95

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Val Val Thr Gly Glu Asp Gly Ser Glu Ser Glu Ala Thr Val Asn Val
100 105 110

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Lys Ile Phe Gln Lys Leu Met Phe Lys Asn Ala Pro Thr Pro Gln Glu
115 120 125

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Phe Arg Glu Gly Glu Asp Ala Val Ile Val Cys Asp Val Val Ser Ser
130 135 140

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Leu Pro Pro Thr Ile Ile Trp Lys His Lys Gly Arg Asp Val Ile Leu
145 150 155 160

Lys Lys Asp Val Arg Phe Ile Val Leu Ser Asn Asn Tyr Leu Gln Ile
165 170 175

Arg Gly Ile Lys Lys Thr Asp Glu Gly Thr Tyr Arg Cys Glu Gly Arg
180 185 190

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Ile Leu Ala Arg Gly Glu Ile Asn Phe Lys Asp Ile Gln Val Ile Val
195 200 205

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Asn Val Pro Pro Thr Ile Arg Ala Arg Gln Asn Ile Val Asn Ala Thr
210 215 220

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Ala Asn Leu Gly Gln Ser Val Thr Leu Val Cys Asp Ala Glu Arg Phe
225 230 235 240

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Pro Glu Pro Thr Met Ser Trp Thr Lys Asp Gly Glu Gln Ile Glu Gln
245 250 255

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Glu Glu Asp Asp Glu Lys Tyr Ile Phe Ser Asp Asp Ser Ser Gln Leu
260 265 270

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Thr Ile Lys Lys Val Asp Lys Asn Asp Glu Ala Glu Tyr Ile Cys Ile
275 280 285

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Ala Glu Asn Lys Ala Gly Glu Gln Asp Ala Thr Ile His Leu Lys Val
290 295 300

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Phe Ala Lys Pro Lys Ile Thr Tyr Val Glu Asn Gln Thr Ala Met Glu
305 310 315 320

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Leu Glu Glu Gln Val Thr Leu Thr Cys Glu Ala Ser Gly Asp Pro Ile
325 330 335

Pro Ser Ile Thr Trp Arg Thr Ser Thr Arg Asn Ile Ser Ser Glu Glu
340 345 350

Lys Thr Leu Asp Gly His Met Val Val Arg Ser His Ala Arg Val Ser
355 360 365

Ser Leu Thr Leu Lys Ser Ile Gln Tyr Thr Asp Ala Gly Glu Tyr Ile
 370 375 380
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Cys Thr Ala Ser Asn Thr Ile Gly Gln Asp Ser Gln Ser Met Tyr Leu
 385 390 395 400

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 Glu Val Gln Tyr Ala Pro Lys Leu Gln Gly Pro Val Ala Val Tyr Thr
 405 410 415

15 Trp Glu Gly Asn Gln Val Asn Ile Thr Cys Glu Val Phe Ala Tyr Pro
 420 425 430

20 Ser Ala Thr Ile Ser Trp Phe Arg Asp Gly Gln Leu Leu Pro Ser Ser
 435 440 445

25 Asn Tyr Ser Asn Ile Lys Ile Tyr Asn Thr Pro Ser Ala Ser Tyr Leu
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Glu Val Thr Pro Asp Ser Glu Asn Asp Phe Gly Asn Tyr Asn Cys Thr
 465 470 475 480

30 Ala Val Asn Arg Ile Gly Gln Glu Ser Phe Glu Phe Ile Leu Val Gln
 485 490 495

35 Ala Asp Thr Pro Ser Ser Pro Ser Ile Asp Gln Val Glu Pro Tyr Ser
 500 505 510

40 Ser Thr Ala Gln Val Gln Phe Asp Glu Pro Glu Ala Thr Gly Gly Val
 515 520 525

Pro Ile Leu Lys Tyr Lys Ala Glu Trp Arg Ala Val Gly Glu Glu Val
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45 Trp His Ser Lys Trp Tyr Asp Ala Lys Glu Ala Ser Met Glu Gly Ile
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Val Thr Ile Val Gly Leu Lys Pro Glu Thr Thr Tyr Ala Val Arg Leu
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Ala Ala Leu Asn Gly Lys Gly Leu Gly Glu Ile Ser Ala Ala Ser Glu
580 585 590
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Phe Lys Thr Gln Pro Val Gln Gly Glu Pro Ser Ala Pro Lys Leu Glu
595 600 605
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Gly Gln Met Gly Glu Asp Gly Asn Ser Ile Lys Val Asn Leu Ile Lys
610 615 620
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Gln Asp Asp Gly Gly Ser Pro Ile Arg His Tyr Leu Val Arg Tyr Arg
625 630 635 640
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Ala Leu Ser Ser Glu Trp Lys Pro Glu Ile Arg Leu Pro Ser Gly Ser
645 650 655
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Asp His Val Met Leu Lys Ser Leu Asp Trp Asn Ala Glu Tyr Glu Val
660 665 670
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Tyr Val Val Ala Glu Asn Gln Gln Gly Lys Ser Lys Ala Ala His Phe
675 680 685
40

Val Phe Arg Thr Ser Ala Gln Pro Thr Ala Ile Pro Ala Asn Gly Ser
690 695 700
45

Pro Thr Ser Gly Leu Ser Thr Gly Ala Ile Val Gly Ile Leu Ile Val
705 710 715 720
50

Ile Phe Val Leu Leu Leu Val Val Val Asp Ile Thr Cys Tyr Phe Leu
725 730 735
55

Asn Lys Cys Gly Leu Phe Met Cys Ile Ala Val Asn Leu Cys Gly Lys
740 745 750
60

Ala Gly Pro Gly Ala Lys Gly Lys Asp Met Glu Glu Gly Lys Ala Ala
 755 760 765
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Phe Ser Lys Asp Glu Ser Lys Glu Pro Ile Val Glu Val Arg Thr Glu
 770 775 780

10

Glu Glu Arg Thr Pro Asn His Asp Gly Gly Lys His Thr Glu Pro Asn
 785 790 795 800

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Glu Thr Thr Pro Leu Thr Glu Pro Glu Lys Gly Pro Val Glu Ala Lys
 805 810 815

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 Met Glu Leu Leu Ser Pro Pro Leu Arg Asp Val Asp Leu Thr Ala Pro

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gac ggc tct ctc tgc tcc ttt gcc aca acg gac gac ttc tat gac gac				
Asp Gly Ser Leu Cys Ser Phe Ala Thr Thr Asp Asp Phe Tyr Asp Asp				
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ccg tgt ttc gac tcc ccg gac ctg cgc ttc ttc gaa gac ctg gac ccg				
Pro Cys Phe Asp Ser Pro Asp Leu Arg Phe Phe Glu Asp Leu Asp Pro				
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cgc ctg atg cac gtg ggc gcg ctc ctg aaa ccc gaa gag cac tcg cac				
Arg Leu Met His Val Gly Ala Leu Leu Lys Pro Glu Glu His Ser His				
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ttc ccc gcg gcg gtg cac ccg gcc ccg ggc gca cgt gag gac gag cat				
Phe Pro Ala Ala Val His Pro Ala Pro Gly Ala Arg Glu Asp Glu His				
	65	70	75	80
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gtg cgc gcg ccc agc ggg cac cac cag gcg ggc cgc tgc cta ctg tgg				
Val Arg Ala Pro Ser Gly His His Gln Ala Gly Arg Cys Leu Leu Trp				
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gcc tgc aag gcg tgc aag cgc aag acc acc aac gcc gac cgc cgc aag				
Ala Cys Lys Ala Cys Lys Arg Lys Thr Thr Asn Ala Asp Arg Arg Lys				
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gcc gcc acc atg cgc gag cgg cgc cgc ctg agc aaa gta aat gag gcc				
Ala Ala Thr Met Arg Glu Arg Arg Arg Leu Ser Lys Val Asn Glu Ala				
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ttt gag aca ctc aag cgc tgc acg tcg agc aat cca aac cag cgg ttg				
Phe Glu Thr Leu Lys Arg Cys Thr Ser Ser Asn Pro Asn Gln Arg Leu				
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ccc aag gtg gag atc ctg cgc aac gcc atc cgc tat atc gag ggc ctg				
Pro Lys Val Glu Ile Leu Arg Asn Ala Ile Arg Tyr Ile Glu Gly Leu				
	145	150	155	160
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cag gct ctg ctg cgc gac cag gac gcc gcg ccc cct ggc gca gcc gcc				
Gln Ala Leu Leu Arg Asp Gln Asp Ala Ala Pro Pro Gly Ala Ala Ala				
	165	170	175	
40				696
ttc tat gcg ccg ggc ccg ctg ccc ccg ggc cgc ggc ggc gag cac tac				
Phe Tyr Ala Pro Gly Pro Leu Pro Pro Gly Arg Gly Gly Glu His Tyr				
	180	185	190	
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Ser Gly Asp Ser Asp Ala Ser Ser Pro Arg Ser Asn Cys Ser Asp Gly				

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	Met Met Asp Tyr Ser Gly Pro Pro Ser Gly Ala Arg Arg Arg Asn Cys			
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	Tyr Glu Gly Ala Tyr Tyr Asn Glu Ala Pro Ser Glu Pro Arg Pro Gly			
	225	230	235	240
10	aag agt gcg gcg gtg tcg agc cta gac tac ctg tcc agc atc gtg gag			888
	Lys Ser Ala Ala Val Ser Ser Leu Asp Tyr Leu Ser Ser Ile Val Glu			
	245	250	255	
15	cgc atc tcc acc gag agc cct gcg gcg ccc gcc ctc ctg ctg gcg gac			936
	Arg Ile Ser Thr Glu Ser Pro Ala Ala Pro Ala Leu Leu Leu Ala Asp			
	260	265	270	
	gtg cct tct gag tcg cct ccg cgc agg caa gag gct gcc gcc ccc agc			984
20	Val Pro Ser Glu Ser Pro Pro Arg Arg Gln Glu Ala Ala Ala Pro Ser			
	275	280	285	
	gag gga gag agc agc ggc gac ccc acc cag tca ccg gac gcc gcc ccg			1032
	Glu Gly Glu Ser Ser Gly Asp Pro Thr Gln Ser Pro Asp Ala Ala Pro			
25	290	295	300	
	cag tgc cct gcg ggt gcg aac ccc aac ccg ata tac cag gtg ctc tga			1080
	Gln Cys Pro Ala Gly Ala Asn Pro Asn Pro Ile Tyr Gln Val Leu			
	305	310	315	
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	gattgaactt aaatgcccc ctccaacag cgctttaaaa gcgccatctc ttgaggtagg			1200
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Pro Cys Phe Asp Ser Pro Asp Leu Arg Phe Phe Glu Asp Leu Asp Pro
35 40 45

25

Arg Leu Met His Val Gly Ala Leu Leu Lys Pro Glu Glu His Ser His
50 55 60

30

Phe Pro Ala Ala Val His Pro Ala Pro Gly Ala Arg Glu Asp Glu His
65 70 75 80

35

Val Arg Ala Pro Ser Gly His His Gln Ala Gly Arg Cys Leu Leu Trp
85 90 95

Ala Cys Lys Ala Cys Lys Arg Lys Thr Thr Asn Ala Asp Arg Arg Lys
100 105 110

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Ala Ala Thr Met Arg Glu Arg Arg Arg Leu Ser Lys Val Asn Glu Ala
115 120 125

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Phe Glu Thr Leu Lys Arg Cys Thr Ser Ser Asn Pro Asn Gln Arg Leu
130 135 140

Pro Lys Val Glu Ile Leu Arg Asn Ala Ile Arg Tyr Ile Glu Gly Leu
 145 150 155 160

5 Gln Ala Leu Leu Arg Asp Gln Asp Ala Ala Pro Pro Gly Ala Ala Ala
 165 170 175

10 Phe Tyr Ala Pro Gly Pro Leu Pro Pro Gly Arg Gly Gly Glu His Tyr
 180 185 190

15 Ser Gly Asp Ser Asp Ala Ser Ser Pro Arg Ser Asn Cys Ser Asp Gly
 195 200 205

Met Met Asp Tyr Ser Gly Pro Pro Ser Gly Ala Arg Arg Arg Asn Cys
 210 215 220

20 Tyr Glu Gly Ala Tyr Tyr Asn Glu Ala Pro Ser Glu Pro Arg Pro Gly
 225 230 235 240

25 Lys Ser Ala Ala Val Ser Ser Leu Asp Tyr Leu Ser Ser Ile Val Glu
 245 250 255

30 Arg Ile Ser Thr Glu Ser Pro Ala Ala Pro Ala Leu Leu Leu Ala Asp
 260 265 270

35 Val Pro Ser Glu Ser Pro Pro Arg Arg Gln Glu Ala Ala Ala Pro Ser
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 Asp Gly Cys Gln Phe Ser Pro Ser Glu Tyr Phe Tyr Asp Gly Ser Cys
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 Ile Pro Ser Pro Glu Gly Glu Phe Gly Asp Glu Phe Val Pro Arg Val
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 Ala Ala Phe Gly Ala His Lys Ala Glu Leu Gln Gly Ser Asp Glu Asp
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30 gag cac gtg cga gcg cct acc ggc cac cac cag gct ggt cac tgc ctc 246
 Glu His Val Arg Ala Pro Thr Gly His His Gln Ala Gly His Cys Leu
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atg tgg gcc tgc aaa gcc tgc aag agg aag tcc acc acc atg gat cgg 294
 Met Trp Ala Cys Lys Ala Cys Lys Arg Lys Ser Thr Thr Met Asp Arg
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cgg aag gca gcc act atg cgc gag cgg agg cgc ctg aag aag gtc aac 342
 Arg Lys Ala Ala Thr Met Arg Glu Arg Arg Arg Leu Lys Lys Val Asn
 85 90 95 100

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 Gln Ala Phe Glu Thr Leu Lys Arg Cys Thr Thr Thr Asn Pro Asn Gln
 105 110 115

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 Arg Leu Pro Lys Val Glu Ile Leu Arg Asn Ala Ile Arg Tyr Ile Glu
 120 125 130

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	Ser Leu Gln Glu Leu Leu Arg Glu Gln Val Glu Asn Tyr Tyr Ser Leu	
	135 140 145	
5	ccg gga cag agc tgc tgc gag ccc acc agc ccc acc tcc aac tgc tct	534
	Pro Gly Gln Ser Cys Ser Glu Pro Thr Ser Pro Thr Ser Asn Cys Ser	
	150 155 160	
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	Asp Gly Met Pro Glu Cys Asn Ser Pro Val Trp Ser Arg Lys Ser Ser	
	165 170 175 180	
15	act ttt gac agc atc tac tgt cct gat gta tca aat gta tat gcc aca	630
	Thr Phe Asp Ser Ile Tyr Cys Pro Asp Val Ser Asn Val Tyr Ala Thr	
	185 190 195	
20	gat aaa aac tcc tta tcc agc ttg gat tgc tta tcc aac ata gtg gac	678
	Asp Lys Asn Ser Leu Ser Ser Leu Asp Cys Leu Ser Asn Ile Val Asp	
	200 205 210	
25	cgg atc acc tcc tca gag caa cct ggg ttg cct ctc cag gat ctg gct	726
	Arg Ile Thr Ser Ser Glu Gln Pro Gly Leu Pro Leu Gln Asp Leu Ala	
	215 220 225	
30	tct ctc tct cca gtt gcc agc acc gat tca cag cct cga act cca ggg	774
	Ser Leu Ser Pro Val Ala Ser Thr Asp Ser Gln Pro Arg Thr Pro Gly	
	230 235 240	
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	Ala Ser Ser Ser Arg Leu Ile Tyr His Val Leu	
	245 250 255	
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	accttgccac tttataagaa agtgtattta actaaaaagt catcattgca aataatactt	1000
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25 Val Pro Arg Val Ala Ala Phe Gly Ala His Lys Ala Glu Leu Gln Gly
35 40 45

Ser Asp Glu Asp Glu His Val Arg Ala Pro Thr Gly His His Gln Ala
50 55 60

30 Gly His Cys Leu Met Trp Ala Cys Lys Ala Cys Lys Arg Lys Ser Thr
65 70 75 80

35 Thr Met Asp Arg Arg Lys Ala Ala Thr Met Arg Glu Arg Arg Arg Leu
85 90 95

40 Lys Lys Val Asn Gln Ala Phe Glu Thr Leu Lys Arg Cys Thr Thr Thr
100 105 110

45 Asn Pro Asn Gln Arg Leu Pro Lys Val Glu Ile Leu Arg Asn Ala Ile
115 120 125

Arg Tyr Ile Glu Ser Leu Gln Glu Leu Leu Arg Glu Gln Val Glu Asn
130 135 140

5 Tyr Tyr Ser Leu Pro Gly Gln Ser Cys Ser Glu Pro Thr Ser Pro Thr
145 150 155 160

Ser Asn Cys Ser Asp Gly Met Pro Glu Cys Asn Ser Pro Val Trp Ser
165 170 175

10 Arg Lys Ser Ser Thr Phe Asp Ser Ile Tyr Cys Pro Asp Val Ser Asn
180 185 190

15 Val Tyr Ala Thr Asp Lys Asn Ser Leu Ser Ser Leu Asp Cys Leu Ser
195 200 205

20 Asn Ile Val Asp Arg Ile Thr Ser Ser Glu Gln Pro Gly Leu Pro Leu
210 215 220

Gln Asp Leu Ala Ser Leu Ser Pro Val Ala Ser Thr Asp Ser Gln Pro
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	35 40 45			
30	Pro Leu Glu Asp Lys Gly Leu Gly Thr Pro Glu His Cys Pro Gly Gln			
	50 55 60			
35	Cys Leu Pro Trp Ala Cys Lys Val Cys Lys Arg Lys Ser Val Ser Val			
	65 70 75 80			
40	Asp Arg Arg Arg Ala Ala Thr Leu Arg Glu Lys Arg Arg Leu Lys Lys			
	85 90 95			
45	Val Asn Glu Ala Phe Glu Ala Leu Lys Arg Ser Thr Leu Leu Asn Pro			
	100 105 110			
45	Asn Gln Arg Leu Pro Lys Val Glu Ile Leu Arg Ser Ala Ile Gln Tyr			
	115 120 125			

Ile Glu Arg Leu Gln Ala Leu Leu Ser Ser Leu Asn Gln Glu Glu Arg
 130 135 140

5 Asp Leu Arg Tyr Arg Gly Gly Gly Gly Pro Gln Pro Gly Val Pro Ser
 145 150 155 160

10 Glu Cys Ser Ser His Ser Ala Ser Cys Ser Pro Glu Trp Gly Ser Ala
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15 Leu Glu Phe Ser Ala Asn Pro Gly Asp His Leu Leu Thr Ala Asp Pro
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Thr Asp Ala His Asn Leu His Ser Leu Thr Ser Ile Val Asp Ser Ile
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